

Appl. No. 10/022,027
Docket No. 8711RR
Amdt. dated February 8, 2007
Reply to Office Action mailed on August 8, 2006
Customer No. 27752

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-21 (Canceled)

22. (Currently Amended) A method for cleaning a surface of a vehicle, said method comprising the steps of:

- (a) applying a cleaning solution to the surface of a vehicle with a hand-held hose-end sprayer ~~spray~~ device, said cleaning solution comprising a polymer which renders the surface hydrophilic; the hand-held hose-end sprayer device being connected to a hose and the hand-held hose-end sprayer device further encompasses a selector valve system which allows the user to select different settings including a setting which allows the cleaning solution to be sprayed, a setting which allows the tap water to be sprayed and a setting which allows the purified rinse water to be sprayed; wherein the step further comprises selecting a setting which allows the cleaning solution to be sprayed to the surface of the vehicle;
- (b) optionally agitating the cleaning solution after applying the cleaning solution to the surface of the vehicle to loosen dirt on the surface of the vehicle;
- (c) rinsing the surface of the vehicle with tap water to remove at least some of the cleaning solution by selecting a setting which allows the tap water to be sprayed to the surface of the vehicle;
- (d) at least partially removing at least some residue-forming substances remaining on the surface of the vehicle, if any residue-forming substances remain on the surface of the vehicle, by rinsing the surface of the vehicle with purified rinse water by selecting a setting which

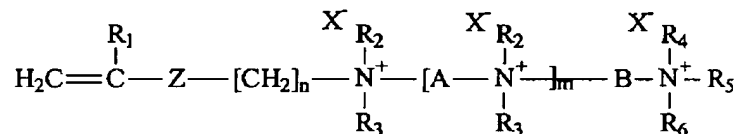
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allows the purified rinse water to be sprayed to the surface of the vehicle using a hose-end water purifying device.

23. (Currently Amended) A method for cleaning a surface of a vehicle, said method comprising the steps of:

- (a) applying a cleaning solution to the surface of a vehicle with a hand-held hose-end sprayer spray device, said cleaning solution comprising a polymer which renders the surface hydrophilic wherein said cleaning solution comprises at least one water-soluble or water dispersible copolymer comprising, in the form of polymerized units

(1) at least one monomer compound of general formula I:



in which:

- R₁ is a hydrogen atom or a methyl or ethyl group;
- R₂, R₃, R₄, R₅ and R₆, which are identical or different, are linear or branched C₁-C₆;
- m is an integer from 0 to 10;
- n is an integer from 1 to 6;
- Z represents a -C (O) O- or -C (O) NH- group or an oxygen atom;
- A represents a (CH₂)_p group, p being an integer from 1 to 6;
- B represents a linear or branched C₂-C₁₂ polymethylene chain optionally interrupted by one or more

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heteroatoms or heterogroups, and optionally substituted by one or more hydroxyl or amino groups;

- X, which are identical or different, represent counterions;

(2) at least one hydrophilic monomer carrying an acidic functional group which is copolymerizable with (1);

(3) optionally at least one monomer compound with ethylenic unsaturation with a neutral charge which is copolymerizable with (1) and (2); the hand-held hose-end sprayer device being connected to a hose and the hand-held hose-end sprayer device further encompasses a selector valve system which allows the user to select different settings including a setting which allows the cleaning solution to be sprayed, a setting which allows the tap water to be sprayed and a setting which allows the purified rinse water to be sprayed; wherein the step further comprises selecting a setting which allows the cleaning solution to be sprayed to the surface of the vehicle;

- (b) optionally agitating the cleaning solution after applying the cleaning solution to the surface of the vehicle to loosen dirt on the surface of the vehicle;
- (c) rinsing the surface of the vehicle with tap water to remove at least some of the cleaning solution by selecting a setting which allows the tap water to be sprayed to the surface of the vehicle; and
- (d) at least partially removing at least some residue-forming substances remaining on the surface of the vehicle, if any residue-forming substances remain on the surface of the vehicle, by rinsing the surface of the vehicle with purified rinse water by selecting a setting which

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allows the purified rinse water to be sprayed to the surface of the vehicle using a hose end water purifying device.

Claim 24 (Canceled)

25. (Previously Presented) The method of Claim 23 wherein said at least one water-soluble or water dispersible copolymer is added to the rinse tap water used in step (c), to said purified rinse water used in step (d), or to both.
26. (Previously Presented) The method of Claim 22 wherein said cleaning composition comprises a silicone surfactant.
27. (Previously Presented) A method for cleaning a surface of a vehicle, said method comprising the steps of:
- (a) providing a spray device that is configured to be connected to the end of a garden hose and held by a user's hand, wherein said spray device comprises: a compartment containing a cleaning solution; a water purifier; and a valve system having settings for a washing step, a unpurified water rinsing step, and a purified water rinsing step;
 - (b) applying said cleaning solution to the surface of a vehicle using said spray device, said cleaning solution comprising a polymer which renders the surface hydrophilic;
 - (c) optionally agitating the cleaning solution after applying the cleaning solution to the surface of the vehicle to loosen dirt on the surface of the vehicle;
 - (d) rinsing the surface of the vehicle with tap water using the spray device with the valve system set on the unpurified rinse setting to remove at least some of the cleaning solution; and

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- (e) at least partially removing at least some residue-forming substances remaining on the surface of the vehicle, if any residue-forming substances remain on the surface of the vehicle, by rinsing the surface of the vehicle with purified rinse water using the spray device with the valve system set on the purified rinse setting.

28. (Previously Presented) The method of Claim 27 wherein said water purifier comprises a structure comprised of two cylindrical portions, each having axes, that are joined together along portions that are oriented in the direction of their axes.

29. (previously presented) The method of Claim 28 wherein each of said cylindrical portions contains ion exchange resin, and one of said cylindrical portions contains an ion exchange resin ~~consisting essentially of~~ containing strong acid cation ion exchange resin and the other cylindrical portion contains an ion exchange resin ~~consisting essentially of~~ containing weak base anion ion exchange resin.

30. (Currently Amended) The method of Claim 27 wherein during step (e), a plurality of beads appear on the surface of the vehicle and continuously sheet off the surface of the vehicle.